

NASA Glenn Research Center Acoustical Testing Laboratory

ATL Test Planning Agenda

The following agenda is meant as a general guideline for the topics that need to be discussed during the test planning meeting. The agenda of a particular test planning meeting may deviate from this as needed.

Te	st Num	ber: (i.e. ATL-01-04)				
Da	te of M	eeting:				
		eet is attached.				
Co	ntact Inf	<u>ormation</u>				
1.	Requ	sting Organization:				
2.		ct Name & phone:				
3. Funding:						
4. List of Customer Personnel that will be at the test and their roles (see back page).						
5.	Who are the decision makers on this project (i.e. if something goes wrong during the test do we need to call the project engineer, lead engineer, etc)? (see back page)					
Tes	st Inforn	<u>ation</u>				
6. Test objective:		bjective:				
7.	The te	st articles are classified as:				
	a.	Qualification/Prototype				
	b.	Protoflight				
	C.	Flight				
	d.	Developmental/Engineering Model				
8.	Test article description:					
	a.	Height				
	b.	Width				
	C.	Length				
	Ь	Weight				

Wha	What is the test article flying on?			
a.	Shuttle (MSG Experiment) (EXPRESS Rack) (Other)			
b.	ISS (MSG Experiment) (Express Rack) (Other)			
C.	Other			
Test	requirements documents			
Are 6	electronic copies of the test requirements documents available for the			
Туре	of test requested:			
a.	Sound Pressure Level			
b.	Sound Power Level			
C.	Sound Intensity			
d.	Vibration (acceleration/velocity)			
Does	the test article require a test fixture?			
a.	Test fixture responsibility (ATL/Customer)			
Wha	t is the typical operational cycle(s)?			
a.	Time duration:			
b.	How many separate events take place during this operational cycle?			
C.	Are the noise sources of these separate events stationary (i.e. tonal, broad band)?			
d.	Are the noise sources of these separate events nonstationary (i.e. chirps, impulses, short period transients)?			
	e test article available prior to the test for ATL personnel look at the test article and listen while operating?			
Test	matrix:			
a.	Number of test conditions:			
b.	Duration of each test condition:			
C.	Can test conditions be repeated or are they a one-shot effort?			
	Test configurations need to accurately replicate and/or conservatively bound the acoustic emissions of all on-orbit operational configurations.			

17.		type of data is requested:				
	a.	Octave band				
	b.	1/3 rd octave band				
	C.	Narrowband (FFT)				
	d.	Other (please explain)				
18.	Are th	ere tones or frequency bands of particular interest?				
19.	Prelim	ninary number and type of transducers:				
20.	<u> </u>					
21.						
22.	Test s	chedule including test set up, testing, data review, and tear down.				
	a.	Test articles and support equipment will arrive at the ATL on (mm/dd/yy)at (am) (pm).				
	b.	Test articles and support equipment will be removed from the ATL by no later than				
		(mm/dd/yy) at (am) (pm).				
	C.	Test days will start (time Customer arrives at ATL) at (am) (pm) and conclude (testing stops and customer leaves the ATL) at (am) (pm).				
FSD		Test days will start (time Customer arrives at ATL) at (am) (pm) and conclude (testing stops and customer leaves the ATL) at (am) (pm).				
ESD 23.	, Conta	Test days will start (time Customer arrives at ATL) at (am) (pm) and				
	Are the	Test days will start (time Customer arrives at ATL) at (am) (pm) and conclude (testing stops and customer leaves the ATL) at (am) (pm). amination Control, Transportation, and Handling				
23.	Are the How we transp	Test days will start (time Customer arrives at ATL) at				
23. 24.	Are the How we transp	Test days will start (time Customer arrives at ATL) at (am) (pm) and conclude (testing stops and customer leaves the ATL) at (am) (pm). amination Control, Transportation, and Handling ere special handling requirements? will the test articles be transported to and from the ATL and who will be responsible for corting? will be responsible for receiving the test article if the Customer will not be present at the				
23. 24. 25.	Are the How we transport Who we ATL we Will the How we will the How we will be a second to the How will be a	Test days will start (time Customer arrives at ATL) at (am) (pm) and conclude (testing stops and customer leaves the ATL) at (am) (pm). amination Control, Transportation, and Handling ere special handling requirements? will the test articles be transported to and from the ATL and who will be responsible for porting? will be responsible for receiving the test article if the Customer will not be present at the when it arrives? the test article require storage before or after the test?				
23. 24. 25.	Are the How was ATL was How was ATL wa	Test days will start (time Customer arrives at ATL) at				
23. 24. 25.	Are the How was ATL was Will the How was a.	Test days will start (time Customer arrives at ATL) at				
23. 24. 25.	Who was a. b.	Test days will start (time Customer arrives at ATL) at				
23. 24. 25.	Are the How was ATL was Will the How was a.	Test days will start (time Customer arrives at ATL) at				

28.	If applicable, Customer will develop a process for documenting personnel access to the article or support equipment (for example, personnel must have the approval of the test conductor prior to accessing the test article).								
29.	Test	Test articles (require) (do not require) following ESD protection procedures.							
30.	What are the ESD protection policies the Customer has been following (if applicable)?								
	 a.		The Customer's ESD protection policies are more stringent than the ATL's, the Customer's policies will be followed.						
	b.		The Customer's ESD protection policies are less stringent than the ATL's, the ATL's policies will be followed.						
31.	Test	articles (red	uire) (do not require) following contamination control procedures.						
32.		are the corcable)?	ntamination control procedures the Customer has been following (if						
	<u></u> а.		The Customer's contamination control policies are more stringent than the ATL's, the Customer's policies will be followed.						
	b.		The Customer's contamination control policies are less stringent than the ATL's, the ATL's policies will be followed.						
afe	ty								
3.	Safet	y considera	tions:						
	a.		High voltage:						
	b.		Combustibles:						
	C.		Pressure:						
	d.		Moving members:						
	e.		Chemicals:						
	f.		Laser light:						
	g.		Rotating Members:						
	h.		Cryogenics:						
	i.		Heat:						
	j.		Hazardous Gases:						
	k.		Vacuum:						
	I.		Radiation:						
34.			Abort Procedure will be baselined, reviewed, and agreed upon by ATL, Quality						
35.	Safet	ty permits re	equired for performing the test the test article?						

Support Equipment

	
a.	What are the electrical, power, air, water, etc support equipment requirements ———————————————————————————————————
b.	What consumables (i.e. compressed gas bottles, batteries, fuel) will be require
C.	Can the Customer's support equipment run off of the 120 VAC outlets through the control room and test chamber?
d.	Will the support cables and hoses allow the test article to be located near the of the test chamber (nominally need 25 foot length cables for support equipme located in the ATL control room)?
e.	How much table space and chairs will the Customer require?
Will t	he overhead crane be needed for this test?
ATL	Facilities:
a.	Test chamber configuration (anechoic / hemi-anechoic).
b.	Data acquisition system(s) that will be used:
C.	Instrumentation and equipment that will be used:
d.	Control room configuration:
e.	ATL has sufficient table space, chairs, and electrical power have been provide ATL, Customer, and Quality Assurance Personnel
f.	Customer will be assigned a dedicated phone and unique phone number (3-20 required
g.	Does the ATL need to supply ESD protection and or contamination control equenter for the Customer (i.e. smocks, grounding wrist straps, etc)?

<u>Qua</u>	lity Assurance					
39.	Will Quality Assurance personnel be present during the test?					
40.	Names and roles of the assigned Quality Assurance personnel:					
41.	Will special documentation required for Quality Assurance?					
Rep 42.	orting ATL test plan needs to be submitted to the following organizations for review and or approval					
43.	Will the Customer's test plan be available to the ATL prior to the test?					
44.	ATL test reporting method:					
	a Detailed engineering report.					
	b Data Only					
45.	Is an estimated two week turnaround time on the test report acceptable? (Yes/No)					